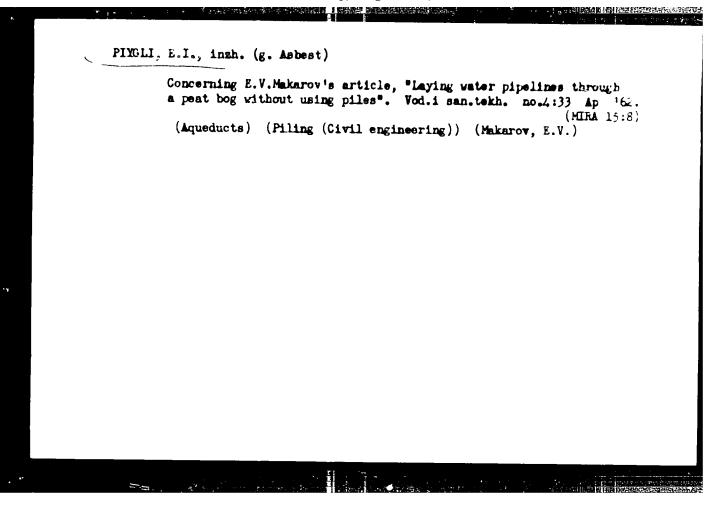


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MEDNIKOV, V.M.; PIYEVSKIY, L.S.

Unit for a hydraulic cleaning of castings. Mashinostroitel'
no.2:18-19 f '62. (MIRA 15:2)

(Founding-Equipment and supplies)
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PIYK, E. [Piik, E.]; ROCKS, I.

Introducing the "Telzen" water refluxing 'ar separator sevice into the Secondary of the Lenter (in Shale Processing Station of the Ject (in Shale Processing St

YEFIMOV, V.M.; LILLE, Yu. [Lille, J.]; PIYK, E. [Piik, E.]; TUL'P, M. Thir, M.].

Results of the heat treatment of Estonian shales in a small test gas generator. Khim. 1 tekh.gor.slan. i prod. ikh perer. no.12;90:125-163.

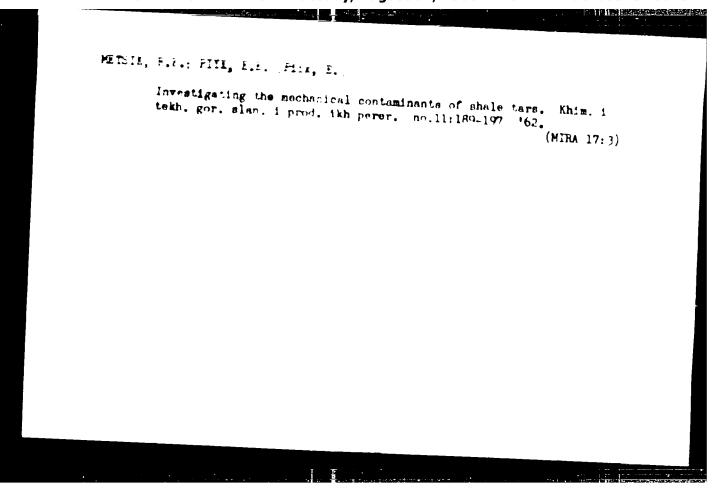
(MIRA 17:2)

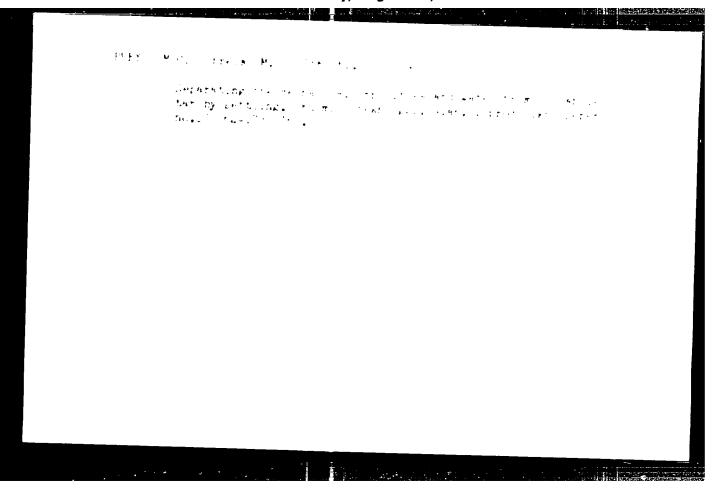
PIXK, E.E. [Price, F.]. N.S.M.V. V.M.; TUL'P, M.Yu. [Tulp, M.]

Tar recovery from the vapor-one mixture in the condensation sections of gas producer shops. Khim. i tekh. gor. slan. i prod. ikh perer nc.13:106-119 '64. (MIRA 18:9)

PIYK, E.E. [Piik, E.]; RAPPU, L.I.

Distribution of water-soluble phenols in the fractions of condensing tar. Khim. i tekh. gor. slan. i prod. ikh perer no.13:204-212 '64. (MIRA 18:9)





26113 S/103/61/022/009/006/014 D206/D304

16.6800

AUTHORS: Lazarev, V.G., and Piyl', Ye.I. (Moscow)

· TITLE: A method of synthesizing switching circuits

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 9, 1961, 1194 - 1201

TEXT: In the present article, the elements of feedback ($^{\circ}$ OC-EOS) are considered which produce at the output voltage signals. Conditions when they have to be used are analyzed and their minimum number evaluated for a given set of conditions, and finally a method of synthesizing switching circuits is proposed for the case when feedback elements are used which react to the signals resulting from any transition of the combination of input into any of the output ($^{\circ}$ OC-E - EOS-B) feedback elements of B type. In this case the feedback elements can be switched-in independently of their previous state by signals resulting from a transposition of signals not met before. Let the switching be given by Fig. (la with

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A method of synthesizing ...

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the following notation: x_1 - input signals; z_1 - output signals; - - signal present at main input; - signal present at the subsidiary input x at the output. Since the output signals result from transitions of certain input conditions into other signals, a definition of these transitions is needed. They are described by voltagepulse formulae introduced by A.D. Talantsev (Ref. 6: Ob analize i sinteze nekotorykh elektricheskikh skhem pri pomoshchi spetsiyal'nykh logicheskikh operatorov (Analysis and Synthesis of Certain Electric Circuits by Special Logic Operators), Avtomatika i telemekhanika, v. XX, No. 7, 1959) which include 'and' 'or' 'nor' and d transformation circuits. Transitions exist from the 'on' state of input signal into 'zero' and vice versa: d x(t) = 1 - transition from 'one' to 'zero' state, $d\bar{x}(t) = 1$ - from zero to one when dx(t) = 0 and $d\bar{x}(t) = 0$ - no transition exists. The signals from main outputs have a voltage character and are described by

 $z_1 = \overline{x_1} x_2 x_3 x_4 x_5 \bigvee \overline{x_1} x_2 x_3 x_4 x_3 \bigvee \overline{x_1} \overline{x_2} x_3 x_4 x_3 \bigvee \overline{x_1} \overline{x_2} x_3 x_4 x_5 \bigvee \overline{x_1} \overline{x_2} x_3 x_4 x_5.$

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parameter t being omitted. The signals for switching the EOS-B circuits may be desirted by boolean functions if function F is found such that $y \in F$ is a voltage function F exists, whose differentiating produces the required pulse signal. The fir uit becomes that shown in Fig. 7 in which all signals, but y, are voltage signals. The process of determining function F is called the integrating of a voltage rules from $y \in F$ of F in F and the obtained directly from operating conditions of in F and F are given by

 $F_{x} = x_1 x_1 x_2 x_4 x_1 \qquad x_2 x_2 x_4 x_1$

The values may thus of priduced in the same : The as main light a grain for any income, in all may be lesigned by the known methods around and of any nor elements. The design procedure in laing EDS Belements is thus as follows: Additional inputs are lennered, required for realizing the given conditions of operation. By weighing input signals the absolutely he assary and Card 3.5

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A method of synthesizing ..

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3 to 2

conditional number selections of output signals 2 are obtained.

3. This determines the absolutely necessary numbers for finition F. In general two forms of function F may be obtained. If Therefore each form of F both F and 2 functions are simplified using the conditional numbers, and the directly as built using and or nor elements. It is stated in conclusion that the directly as shown in Fig. 3 is not always possible to realized since for some voltage-pulse forms, not one but many F functions can be found whose differential is y. There are if figures, and is references: ish-language publications read as follows: W. Keister, A. E. Ritchie, S. W. Waschburn. The design of switching circuits, N. Y. Switching circuits. D.A. Huffman, The synthesis of sequential switching circuits. Journal of the Franklin Inst., v. 267, no. 3.

SUBMITTED: Petruary .4. .961

Cara 4 -

9,4000 (1158,1138,1161)

25707 \$/020/61/139/003/006/025 B104/B201

AUTHORS:

Lazarev, V. G., and Piyl', Ye. I.

TITLE:

Integrating of potential-pulse shapes

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 3, 1961, 556 - 559

TEXT: A description is offered of algebraic methods of integrating potential-pulse shapes, which permit the circuit diagram of the electronic devices concerned to be simplified appreciably. The potential-pulse shapes can be represented as disjunction g of conjunctions of the form

$$\beta_{i} = x_{i_{1}}^{p_{i_{1}}} x_{i_{2}}^{p_{i_{2}}} \dots x_{i_{n-1}}^{p_{i_{n-1}}} dx_{i_{n}}^{p_{i_{n}}}, \qquad Y = \bigvee_{i=1}^{g} \beta_{i}$$
 (1).

Here, $p_i = 0$, 1; $x_i = x_i p_i \sqrt{x_i} \overline{p_i}$; $g \le n2^n$. These conjunctions are designated as unconditional if Y = 1 is satisfied. If Y = 0 they are called forbidden conjunctions. Such for which Y is undefined are designated as conditional conjunctions. Taking account of the latter enables one to simplify the electronics in a number of cases. The Card 1/4

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Integrating of ...

integration method described here proves the most effective in cases, where a large number of conditional conjunctions appear. A potential-pulse shape is said to be integrable if it is possible to indicate a Boolean function $F(x_1, \ldots x_n)$ such that dF = Y(2). F, like any Boolean function, can

be defined by a great number of constituents, by which F assumes the value 1. They are called unconditional constituents. Such as assign F the value 0 are termed forbidden constituents, and such in which F is not defined are designated as conditional constituents. Conjunction

 $a_i = x_{i_1}^{p_{i_1}} \dots x_{i_n}^{p_{i_n}}$ is an unconditional onstituent of function F, and conjunction $a_i = x_{i_1}^{p_{i_1}} \dots x_{i_n}^{p_{i_n}} \dots x_{i_n}^{p_{i_n}}$ is a forbidden conjunction.

Both constituents are designated as a pair of constituents and denoted by $A_i = \begin{pmatrix} \alpha_i \\ \alpha_i \end{pmatrix}$. Each of the conjunctions of an integrable potential-pulse Card 2/4

建设。

Integrating of ...

25707 S/020/61/139/003/006/025 B104/B201

shape defines a pair of constituents for the function F. The potential-pulse shape is defined as a system of constituent pairs, which is denoted by $[Y] = \begin{bmatrix} A_{1_1}, \dots, A_{1_n} \end{bmatrix}$. The totality of forbidden conjunctions defines

a system of sets of constituents, which may be represented in the form $|Y| = \begin{bmatrix} B_{j_1} \\ 1 \end{bmatrix}, \dots, \begin{bmatrix} B_{j_n} \\ 1 \end{bmatrix}$

is defined as a general system of pairs and sets. If, in this general system, one of the unconditional constituents does not appear among the forbidden ones, this system is said to be coordinate. Otherwise, this general system can be divided into coordinate subsystems, and the general system will be partially coordinate. To each of these subsystems there

corresponds a function F^{j} . A potential-pulse shape (1) is designated as

being partially integrable if $\bigvee_{j=1}^{m} dF^{j} = Y(5)$. If no function F can be

found to satisfy (2) or (3), this potential-pulse shape will be not integrable. The following theorems are formulated: Theorem 1: λ potential-pulse shape is integrable if a coordinate general system of Card 3, 4

Integrating of ...

25707 S/020/61/139/003/006/025 B104/B201

pairs and sets of constituents corresponds to it. Theorem 2: A potential-pulse shape is partially integrable if a partially coordinate general system of pairs and sets of constituents corresponds to it. Theorem 3: A potential-pulse shape is not integrable if an absolutely noncoordinate general system of pairs and sets of constituents corresponds to it. Two examples are finally discussed. It is assumed in them that, if no forbidden conjunctions appear, all the others are conditional conjunctions, with the exception of those defining the potential-pulse shape. In this case there is no system of sets of constituents, and the general system of pairs and sets will agree with the system of pairs of constituents. A. D. Talantsev is mentioned. M. L. Tsetlin is thanked for interest displayed and advice given. There are 3 Soviet-bloc

PRESENTED: February 2x, 1961, by B. N. Petrov. Academician

SUBMITTED: February 22, 1961

Card 4/4

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001341

LAZAREV, V. G. and PIYL, Ye. I.

"Reduction of member of internal states in certain classes of finite automate" report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

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LAZAE.7, V.G. (Moskva); PIXL', Ie,I. (Moskva)

Method for obtaining a complex algorithm by joining simple algorithms, Izv. AN SISSR. Otd. tekh. nauk. Energ. 1 avtom. no. it. 180-175 My-Je '62.

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LAZAREV. V.G. (Moskva); PIYL', Ye.I. (Moskva)

Certain classes of finite automats. Zhur.vych.mat.i mat.fiz.
2 no.41695-702 JI-Ag '62. (Mina 15:8)

(Automation)
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36908 5/020/62/143/005/004/018 B104/B102

AUTHORS:

Lazarov, V. G., and Piyl', Ye. I.

TITLE:

Reduction of the number of states of one class of finite

automatons

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 5, 1962, 1064-1066

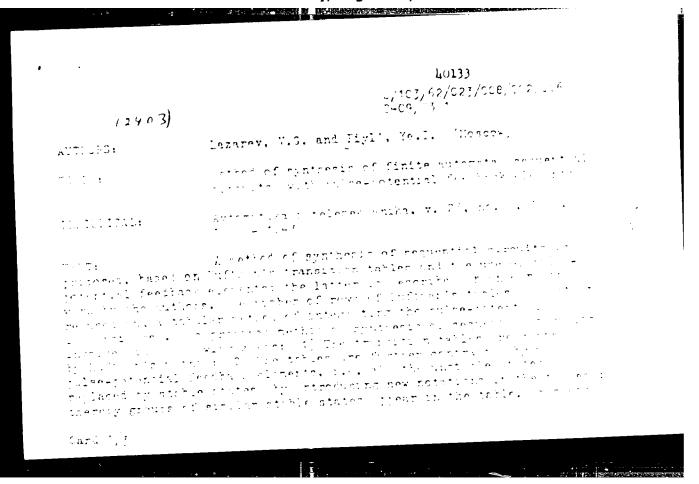
TEXT: Automatons described by

are investigated. $\chi(p)$ is the inner state of the automaton, $\chi(p)$ is the output state, $\chi(p)$ is the input state, $\chi(p)$ is t to the period T of an automaton cycle, d is a transition operator describing the variation in state of the automaton, $d \left[j_1(p-1) \right]$ denotes the variation in state of the automaton during its transition from cycle p-1 to cycle p. The description of the operation of an asynchronous automaton by means of a transition matrix is studied (D. D. Aufenkamp,

Card 6/2

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ACCESSION NR: AT4008642

8/2945/63/000/015/0023/0035

AUTHORS: Lazarev, V. G.; Piyl', Ye. I.

TITLE: Methods for construction of a programmed control block in

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy* peredachi informatsii, no. 15, 1963. Sistemy* raspredeleniya in-

TOPIC TAGS: programmed control block, control block construction, control system, block asynchronous operation, block synchronous operation, finite automatic system, functional block, algorithm logic circuit, Mealy automaton, Mur automaton, asynchronous operation mode, synchronous operation mode, coding control, sequential logic network

ABSTRACT: Methods are considered for the construction of a program

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ACCESSION NR: AT4008642

control block, which determines the sequence with which functional blocks of an information distribution system are to operate in order to service the incoming calls in accordance with a specified algorithm. The program control block issues control signals which initiate operation of the functional block. At the end of the operation, the functional block generates a signal fed back to the program control unit, following which the latter can issue the next control signal. The Lyapunov algorithm logic circuit (Problemy kibernetiki, No. 1, Pizmatgiz, 1958) is used to describe the sequence of the program control block signals. The case of realization of a single algorithm and of several algorithms whose sequence depends on various parameters is considered in detail. Realization of the program control block by means of both Mealy and Moore automata is discussed. It is shown that synchronous and asynchronous operating modes of the programmed control block are approximately equivalent with respect to the number of elements necessary to synthesize the system. The asynchronous operating mode has the advantage that it permits more ef-

ACCESSION NR: AT4008642

fective utilization of the operating speed of the control block, but may cause some complications in the functional blocks, owing to the need of generating signals that indicate the termination of their operation. Consequently, the choice of the program control block used for a specific automatic system depends primarily on the concrete operating conditions of the control block. Orig. art. has: 5 figures, 16 formulas, and 8 tables.

ASSOCIATION: Institut problem peredachi informatsii AN SSSR (Institute of Information Transmission Problems AN SSSR)

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ENCL: 00

SUB CODE: MM,CO

NO REF SOV: 005

OTHER: 003

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S/103/63/024/002/017/020 () D201/D308

AUTHORS:

Lazarevm V.G. and Piyl', Ye.I. (Moscow)

TITLE:

Simplification of pulse-potential forms

PERIODICAL:

Avtomatika i telemekhanika, v. 24, no. 2, 1963,

271-276

TEXT: The authors describe a simplification of pulse-potential forms by separating common factors from adjacent homogeneous conjunctions. The simplification is carried out in two stages: in the first stage the simplifications are based on the use of absolutely homogeneous conjunctions, leading to the elimination of variables and in the second stage they are related to introduce the D-operator.

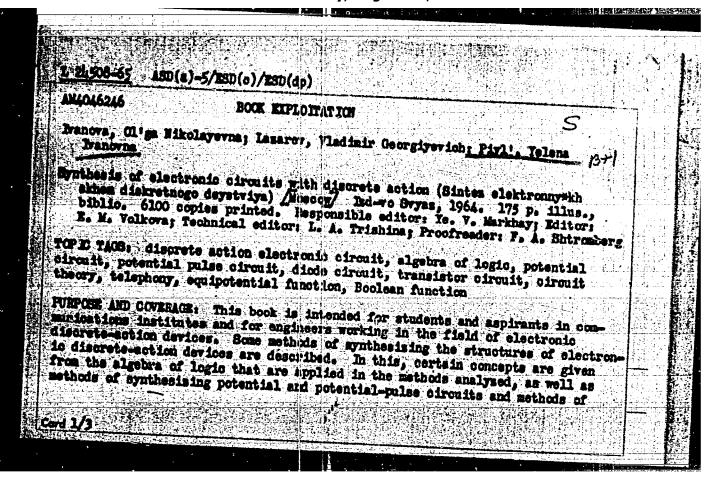
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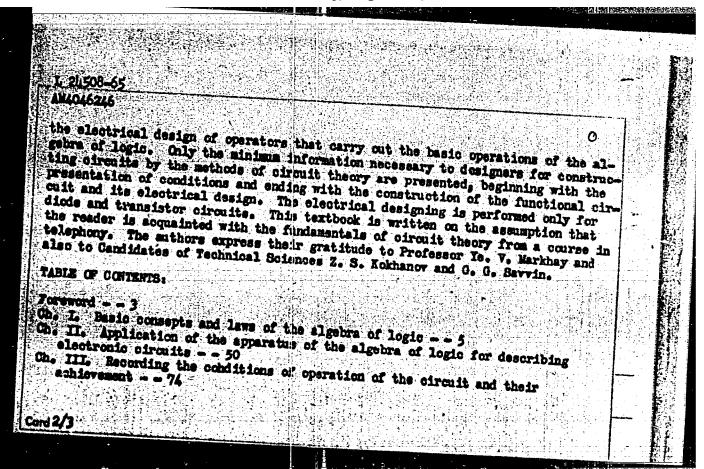
January 4, 1962

Card 1/1

L 26331-65 BdT(d)/Bdp(c)/BdA(d)/BdD ACCESSION NR; AT5001701 AUTHOR: Piyl' Ye. I. TITLE: Method of assigning the interp	y)/T/M/P(k)/E/P(h)/E/P(l) Pf-4 8/2945/64/000/017/0056/0069 18 11 states of an asynchronous finite auto-
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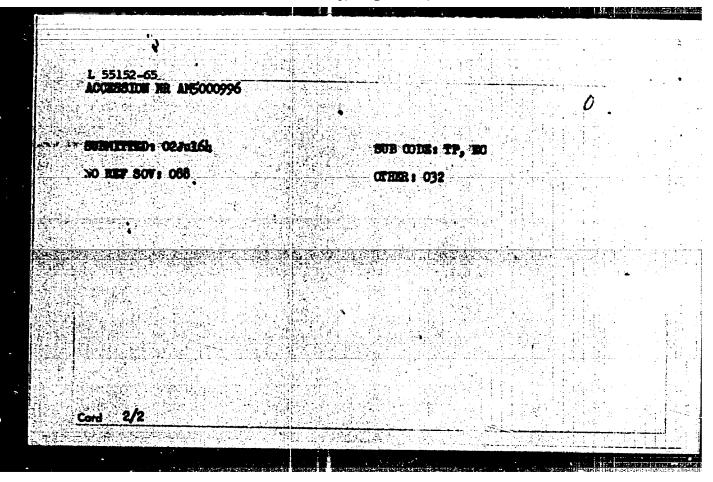


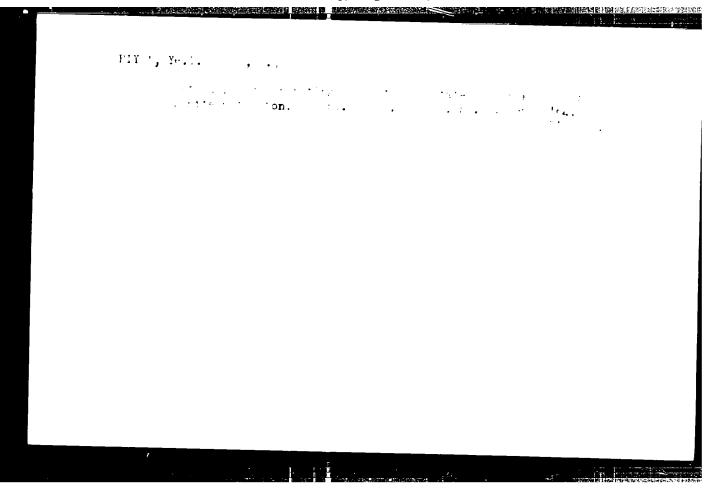
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ACCESSION RR AMSOCO996 BOOK EXPLOITATION Lassarev, V. G.; Piyl', TR. I. Synthesis of asynchronous terminal submettic devices (Sintes asinkhronnykh konechnykh avtosatov), Moscow, Isd-vo "Nauka", 1961, 258 p. illus., biblinsuk SSSR. Institut problem peredashi asserted. (At head of title: Akademi	3/
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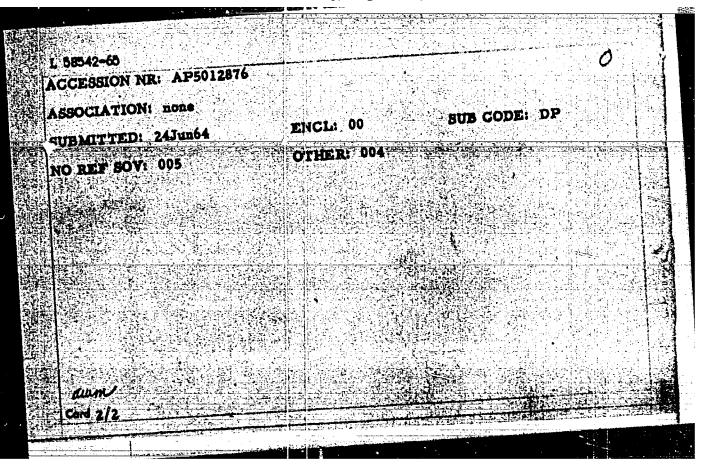




ACCESSION NR: AT4042437	\$/0000 <mark>/64/000/0</mark> 22/0059/0066
UTHOR: Zenchenko, V. P.; Lazarev, V	V. O.; Piyl', Ye. I.
TITLE: Synthesis of pneumatic system operations	ms with track control using transition
SOURCE: Vsesoyuznoye soveshchaniye p .eningrad, 1962. Pnevmo÷ i gidroavto naterlaly* soveshchaniya, Moscow, Izo	po pnevmo-gidravlicheskoy avtomatike. 5th, omatika (Pneumatic and hydraulic control); d-vo Nauka, 1964, 59-66
OPIC TAGS: automation, automatic corrack control, transition operation,	ontrol system, pneumatic control system, cyclogram, control system design
netod postroyeniya pnevmaticheskikh shent, 1962, No. 4), a method was proported track control based on devices with track control based on devices with MEMORY, and which a lowed one to present paper, the authors start with the cyclograms of a machine for crimpustrated by way of example. They the	e first author (V. P. Zenchenko. Strukturnywy sistem s putevyym kontrolem. Stanki i instru- bosed for the synthesis of pneumatic systems which realized the operations AND, OR, NOT; obtain dynamically stable systems. In the ora discussion of the transition operations, bing covers and of a loading device are illenen show how to eliminate the coincidence as pulse-potential forms. Using the method

L 58542-65 UR/0280/65/000/002/0058/0065 ACCESSION NR: AP5012876 AUTHOR: Piyl Te, I. (Moscow) TITLE: Internal state assignment in a finite automaton SOURCE: AN SSSR. Investiya. Tukhnicheskaya kibernetika, no. 2, 1965, 58-65 TOPIC TAGS: finite automaton ABSTRACT: Connected with the work of R. E. Stearns and J. Hartmanis (IRE Trans., EG-10, 1961, no. 4), this article suggests a method for assigning the internal states for a finite asynchronous automaton in such a way that nonpermissible contests among storage units are precluded and the scheme of the logical converter is simplified for the case of paired partitions (divisions). The logical converter is a representation of the finite automaton as a multipole having n fundamental input signals, k fundamental output signals, and s feedback elements (or binary storage units). The author's method can be utilized in synthesising digital (including control-type) computers. Orig. art. has: 4 figures, 13 formulas, and I table. Cord 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



ACC NR. AP6007534

SOURCE CODE: UR 0406 /65 /001 /002 0079 0086

AUTHOR: Plyl', Ye. I.

ORG: none

Tr Live Method for assuming the oil pulse potential memory elements A 1 1.1

SOURCE: Proble by peredachi informatsh, v_1, v_2, v_3 , v_4, v_5 , v_6

ABSTRACT: A method is considered a process of the different analysis. nous fullte automaton with paine-pote, the following the first part of the based on a sequential expansion of the account of t makes it possible not only to simplify the street of the s

dependence of its variables, but also the contract of the maintenance of the state $= \widetilde{G} = (1, \dots, n) = n$ Differences in the operation of automore and property of a said property of the property of the contract of th are noted, as they pertain to the false of profile and force that the false of the

Cord 1/2

UDC: 62-697

ACC NR. AP6007534

proposed. Original APPROVED FOR REPEASED Tuesday, August 01,12000 - CIA-RDP86-00513R0013411

SUB CODE: 05,09/ SUBM DATE, 2. $C^{\alpha}D_{\alpha}=\{p_{\alpha}\}_{\alpha\in A}, \alpha_{\alpha}$

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001341

L 32166-66 EWT(1) GW

ACC NR: AP6010062

SOURCE CODE: UR/0387/66/000/003/0024/0032

AUTHOR: Oblogina, T. I.; Piyn, V. B.

B

ORG: Geological Department, Moscow State University im. M. V. Lomonosov (Geologiches-

kiy fakul'tet, Moskovskiy gosudarstvennyy universitet)

TITLE: Study of the kinematic properties of waves in nonuniform media

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 3, 1966, 24-32

TOPIC TAGS: seismic wave, propagation, propagation velocity, hodograph

ABSTRACT: Calculations were made for the ray structure, fronts and hodographs of seistic waves as a function of two coordinates for dimetric media having a variable propagation velocity v(a,y). The velocity characteristics of the nonuniform media were obtained as functions of the velocity and velocity gradient fields. Differential equations were related to these fields for calculation of the ray structure and a combined graphical-analytical method was developed to solve the equations. For seismic waves moving through media with a velocity

 $v(x,y) = v_0 \exp(k_1 \arctan x + k_2 \arctan y),$

scalar velocity fields and vector fields of the velocity gradients were given as a func-

UDC: 550.834

Cord 1/2

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L 32166-66

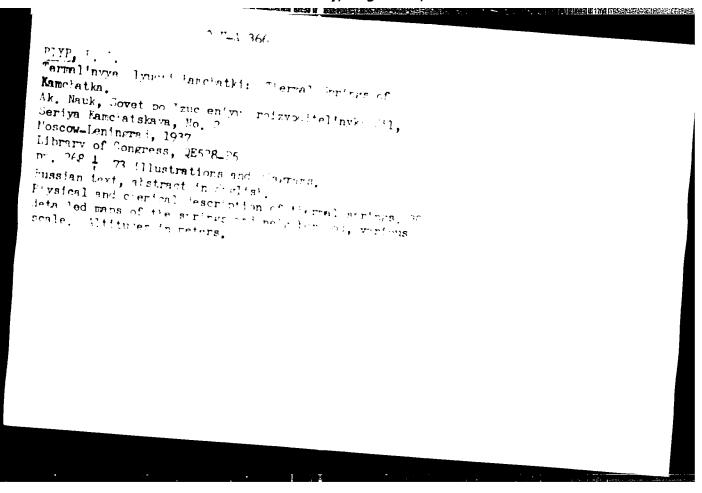
ACC NR: AP6010062

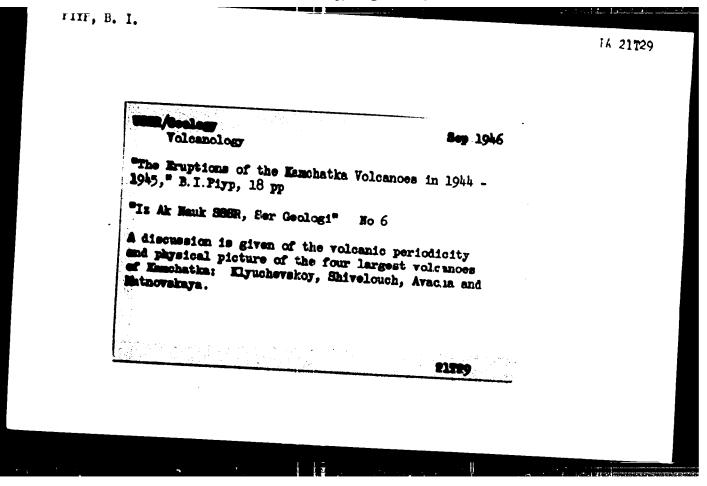
tion of x-y coordinates. Isochronic curves were constructed for sections along which the velocity varied linearly and these were plotted jointly with the hodographs. The shapes of these curves were explained on the basis of the boundary conditions. The velocity field and the velocity gradient field characterized the velocity distributions in the media and their rate of increase of decrease in any arbitrary direction. The trajectories of seismic rays in nonuniform media were described by second order differential equations with variable coefficients and the above semigraphical method of solution relied on a geometrical interpretation of these equations. Orig. art. has: 5 figures, 1 table, 16 formulas.

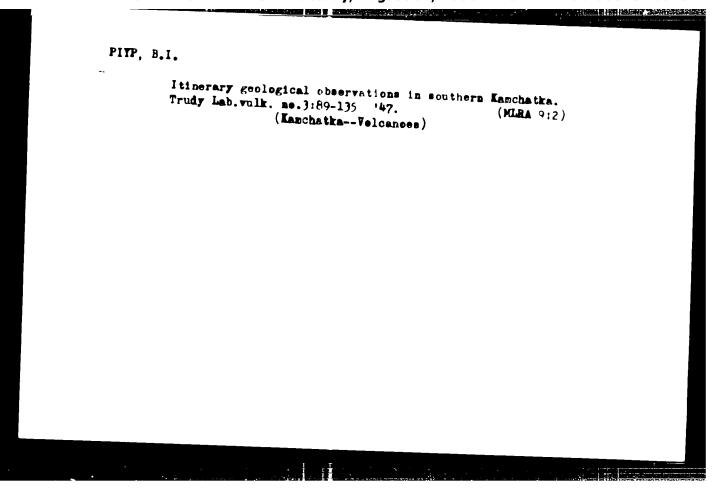
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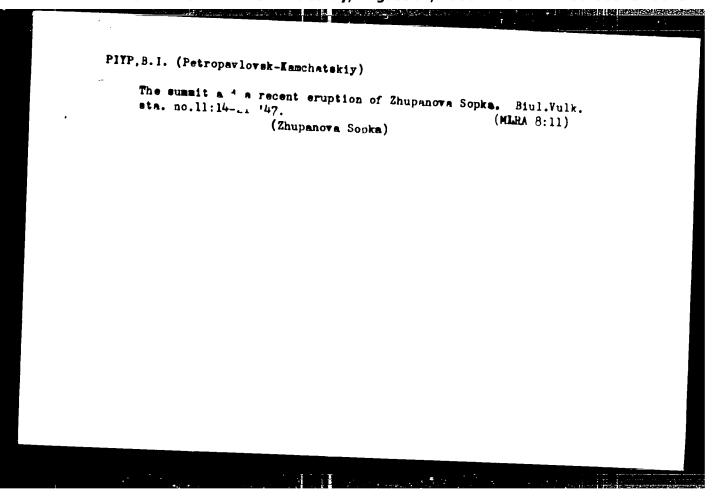
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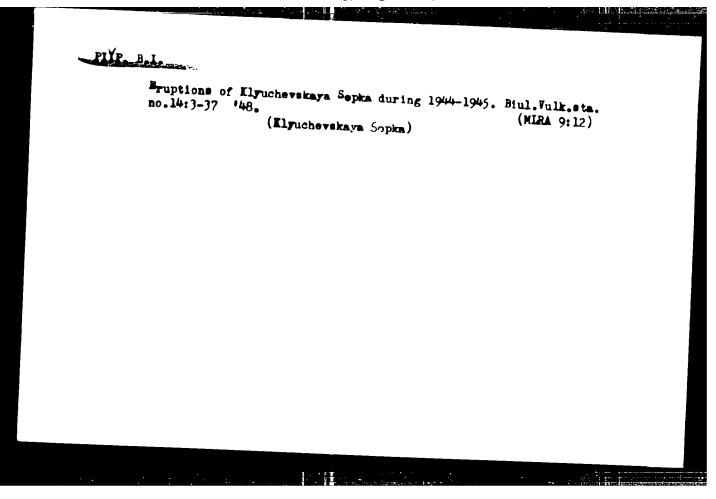
ORIG REF: 005

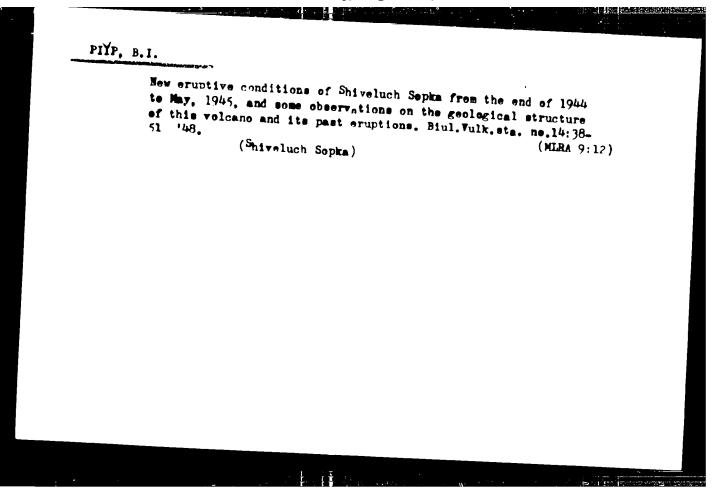


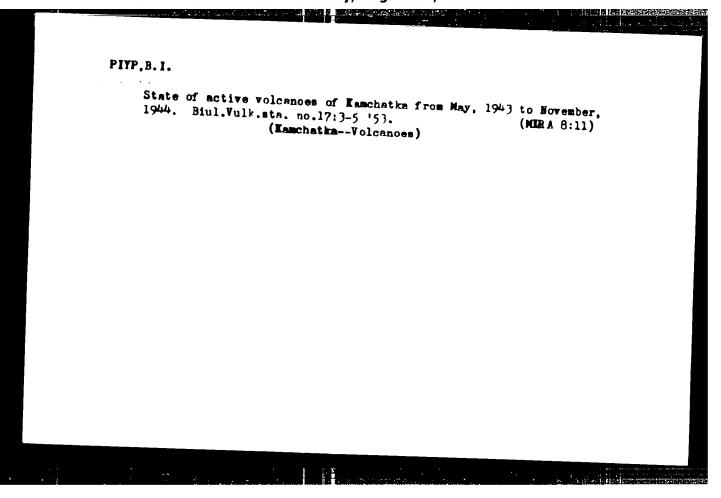


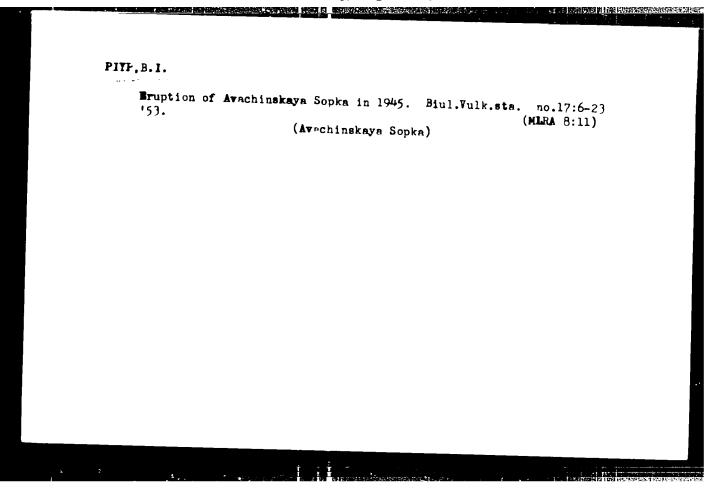












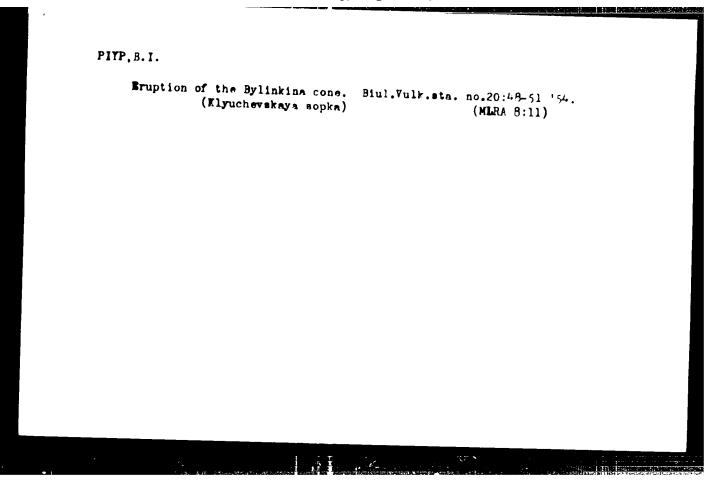
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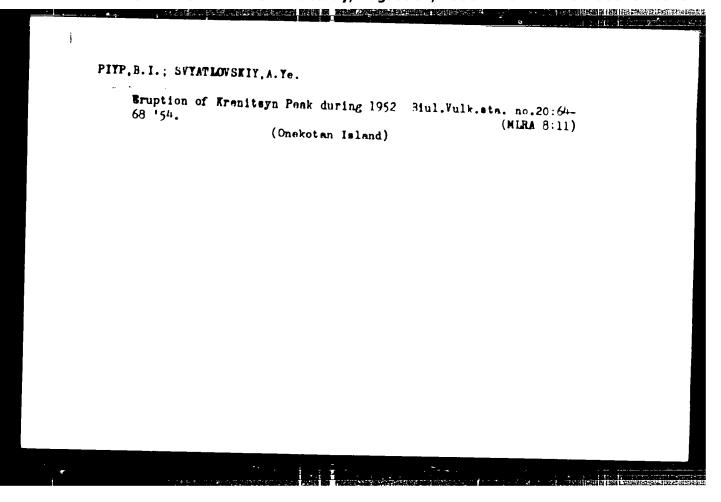
PIYP, B. I.; GORSHKOV, G. S.; KVASHA, L. G.

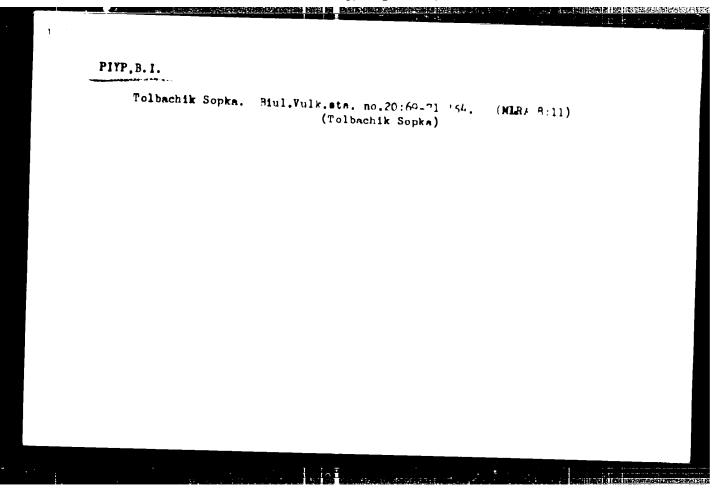
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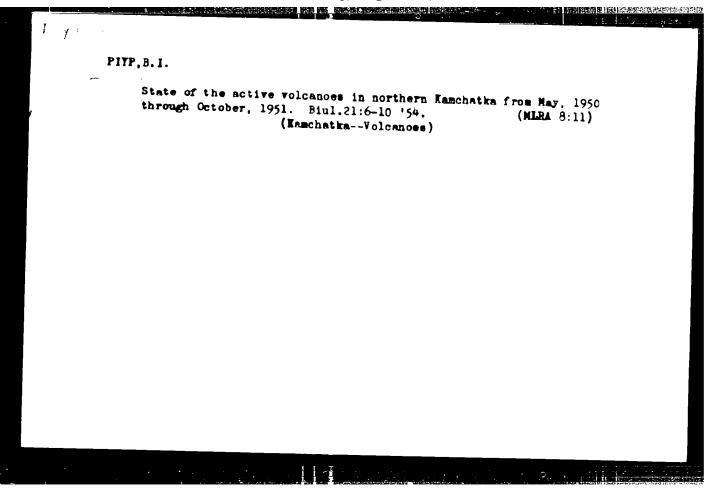
"Aleksandr Nikolayevich Zavaritskiy," Tr. Labor, vulkanologii AN SSSR, No 8, 5-17, 1954

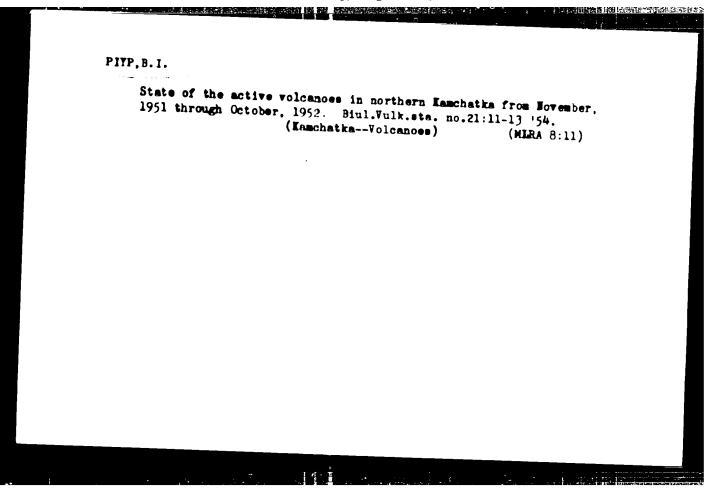
An article in memory of Academician A. N. Zavaritskiy (1884-1953), outstanding Soviet scientist; specialist in the field of petrography, mineral deposits, vulcanology, general geology, and tectonics; and author of more than 220 works.

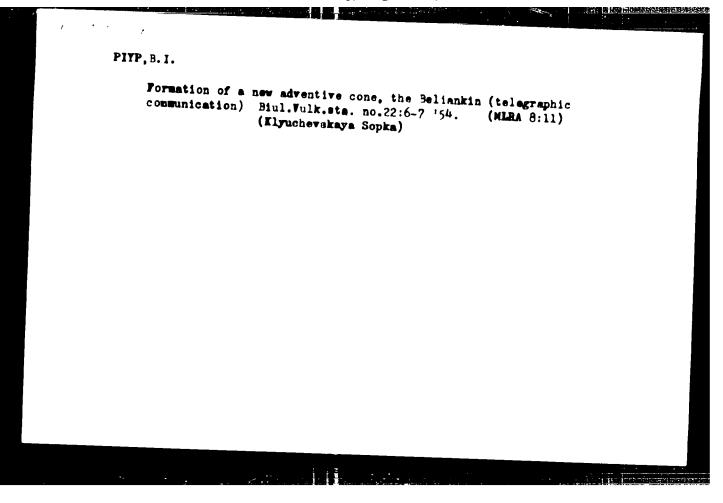












PHTP, Boris Ivanevich; VIODAVETS, V.I., redaktor; FEODOTIVEV, K.M.,

FEGRAVEF; MAKUHI, Ye.V., teknsicheskiy redaktor.

[Elyuchevekaya Sepka and its eruption during 1944-1945 and
in the past fliuchevekaia.sepka i es isversheniis v 19441946 eg. i v preshlem. Moskva, Indeve Akademii mauk SSSR,
1956. 308 p.(Akademiia mauk SSSR. Laberatoriia vulkanelegii.

Trudy, no.11)

(Elyuchevskaya Sepka)

《新聞》, 1987年 1988年 1988

15-1957-3-2897

Translation from: Referativnyy znurnal, Geologiya, 1957, Nr 3,

p 63 (USSR)

AUTHOR:

Piyp, B. I.

TITLE:

Klyuchevskaya Sopka, Its Eruptions in

1944-45 and in the Past (Klyuchevskaya sopka i yeye

izverzheniya v 1944-1945 gg. i v proshlom)

PERIODICAL:

Tr. Labor. volkanologii AN SSSR, 1956, Nr 11, 311 pp

ARS TR /.CT:

In the first part of the paper the author presents the essential information on the Klyuchevskaya Sopka group vol-

canoes: physico-geographic and geologic data and an outline of the geologic history of the volcanoes. In the second part the data of past eruptions are cited and general conclusions are given on the past activity of all the volcanoes. The third part describes the eruptions of the Klyuchevskaya Sopka volcanoes in 1944-45. The

volcances had become quiescent immediately after the

Card 1/6

end of the preceding volcanic cycle (March, 1939). In

Klyuchevskaya Sopka, Its Eruptions in 1944-45 and in the Past

December, 1944, the activity of the Klyuchevskaya Sopka was renewed, beginning in the end crater with continuous explosions, which gradually grew more intense. After continuing for three weeks, the activity reached its maximum force and then suddenly ceased. After a pause of five months eruptions began again at the foot of the cone, where a chain of new secondary craters broke out and emitted gases and escaping fragments of lava. the time of the last eruption, the ejected material was not sufficient to raise the height of the secondary cone to the great height of the summit crater. The cycle of 1945 ended with a comparatively moderate explosive eruption from the chief crater. In October, 1946, at almost the same spot where the crater nad broken through in 1945, an eccentric eruption occurred. This eruption was apparently associated with the last residual of the magma body that had been injected into the volcano at the time of the last eruption in 1945. The lava of this final eruption consisted of bombs, scoria, and volcanic ash; in general composition it is plagioclase basalt. The chemical analysis Card 2/6

15-1957-3-2897

Klyuchevskaya Sopka, Its Eruptions in 1944-45 and in the Past

gives SiO2 52.90%; TiO2 1.06%; Al203 17.70%; Fe O3 3.36%; FeO 5.36%; MnO 0.16%; MgO 6.40%; CaO 9.21%; RaO 0.08%; Na 0 2.30%; K2O 1.00%; H2O+ 0.20%; H2O- 0.08%; P2O5 0.17%; Cl 0.12%; F 0.01%; SO3 0.10%; CO2 0.06%; total 100.27%. The products of the eccentric eruption were effusive lava, bombs, scoria, and ash. The following data on the chemical analyses are for the effusive lava and represent the first and the last phase of magmatic composition (respectively): SiO2 53.22% and 51.22%; TiO2 0.80% and 1.11%; Al203 17.28% and 17.02%; Fe2O3 3.64% and 4.20%; Fe0 6.22% and 5.81%; MnO 0.20% and 0.20%; MgO 5.42% and 5.97%; CaO 8.60% and 9.02%; RaO 0.10% and 0.04%; Na20 2.90% and 0.29%; P2O5 0.20% and 1.07%; H2O+ 0.11% and 0.98%; H2O- 0.08% and 0.29%; P2O5 0.20% and 0.11%; Cl 0.10% and not determined: total consist of a rock type containing phenocrysts of plagioclase, mass. Data on two chemical analyses are given for the explosive lava at the time of the break through, from two different

Klyuchevskaya Sopka, Its Eruptions in 1944-45 and in the Past

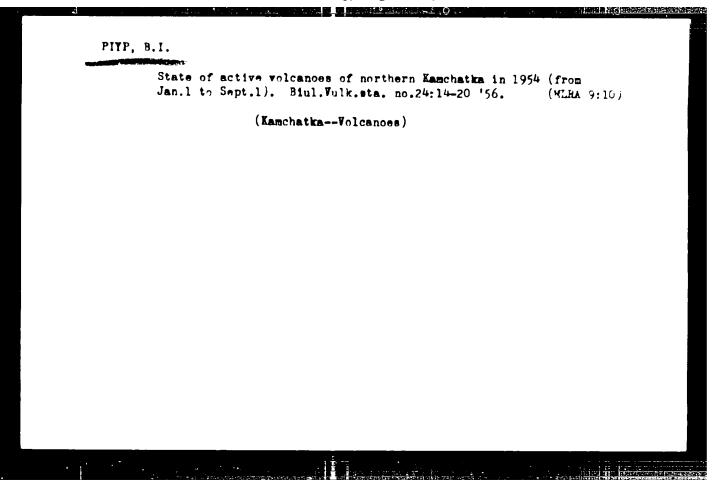
15-1957-3-2837

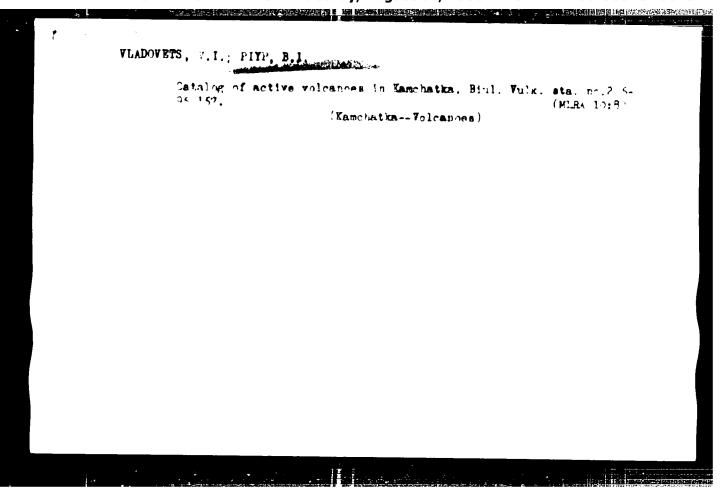
craters (Obruchev and Zavaritskiy respectively): SiO2 :3.122 and 53.30%; Tio2 1.12% and 1.09%; Al203 18.19% and 17.72%; Fe203 3.18% and 3.58%; FeO 6.68% and 6.40%; MnO 0.10% and 0.26%; MgO 5.23% and 5.93%; CaO 7.91% and 8.70%; RaO 0.04% and 0.12%; Na₂O 3.52% and 2.42%; K_2O 1.11% and 1.40%; H_2O + 0.10% and 0.10%; H_2O - 0.08% and 0.04%; P_2O 5 0.09% and 0.12%; C1 none and 0.12%; F 0.01% and 0.02%; O3/O3/O3/O3/O4 and a trace; O2 none and none; total 100.68% and 100.38%. The volcanic sands consist chiefly of glass, but crystal fragments (plagioclase, olivine, and clinopyroxene) occur occasionally in subordinate quantities. Two dominant types of glass occur: brown transparent (n = 1.554 to 1.556) and black opaque (n = 1.556 to 1.565). The chemical composition of the sand is SiO2 53.38%; TiO2 0.92%; Al203 16.58%; Fe₂0₃ 2.81%; Fe₀ 5.64%; Mn₀ 0.12%; Mg₀ 4.84%; Ce₀ 10.04%; He₀ none; Na20 3.30%; K20 0.29%; H20+ 0.16%; H20- 0.06%; P205 6.20%; Cl 0.03%; F 0.03%; Sog a trace; Co2 none: total 100.50%. Small quantities of solid material were carried to the surface during eruption by the masses of lava. This material, sometimes de-Card 4/6

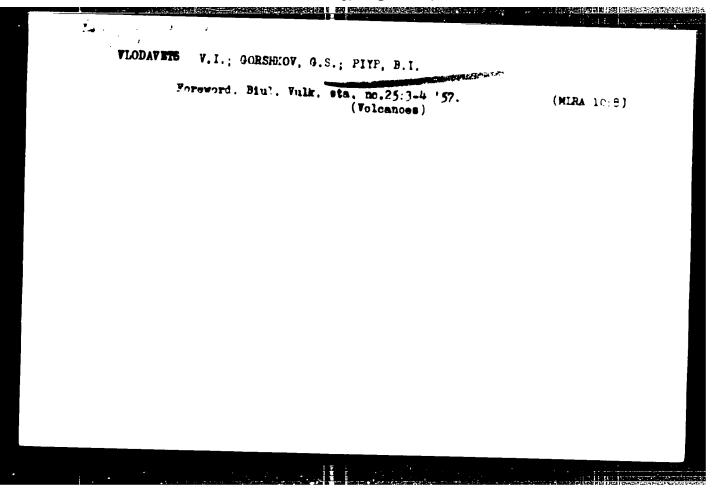
15-1957-3-2897

Klyuchevskaya Sopka, Its Eruptions in 1944-45 and in the Past

posited as individual fragments and sometimes fused into the mass of lava, ranges in composition from rocks completely foreign to the magma, torn from the walls of the condiut, to rocks related to the magma in different genetic ways. The author proposes to call these inclusions chadaliths (xenoliths). Several varieties of chadaliths are distinguished. 1) Microtinites -- small fragments consisting of transparent grains of plagioclase closely pressed together, with small specks of a black mineral uniformly scattered through the aggregate. Such chadaliths were formed from fluids which were squeezed out of the parent melt and injected into the country rocks. 2) Melilitic chadaliths -- accumulations of thick melilite plates, which are most numerous at the rim. They apparently formed by the introduction of volatile silicate material and by metasomatic exchange between this material and a rather pure limestone. 3) Chadaliths of hornfels. 4) Chadaliths of peridotite. 5) Chadaliths of Tertiary sediments. 6) Chadaliths of pumice. 7) Chadaliths of old lava. The principal conslusions of the Card 5/6







15-1957-10-13871

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 71 (USSR)

Vlodavets, V. I., Plyp, B. I. AUTHOR:

Catalog of the Active Volcanoes of Kamchatka (Katalog TITLE:

deystvuyushchikh vulkanov Kamchatki)

PERIODICAL: Byul. Volkanol. st. AN SSSR, 1957, Nr 25, pp 5-95

A map and detailed descriptions of the following 28 ARSTRACT:

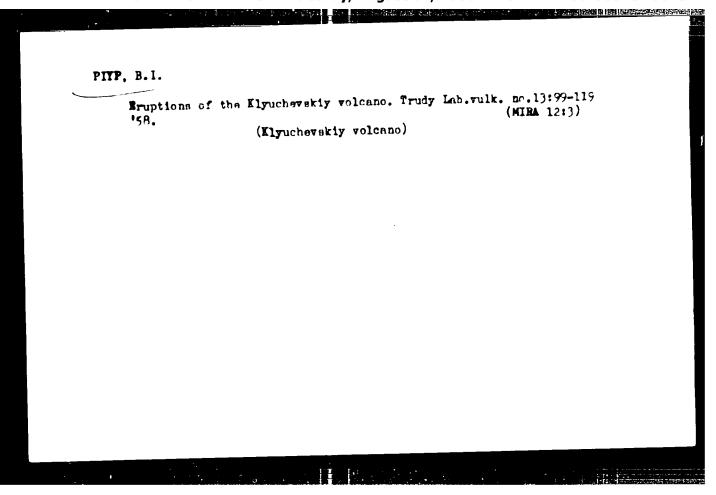
volcanoes of Kamchatka are given: Sheveluch, Klyuchevskiy, Bezymyannyy, Ploskiy Tolbacnik, Kizimen, Komarov, Gamchen, Kronotskiy, Krasheninnikov, Kikhpinych, Uzon, Burlyashchiy, Tsentral'nyy Semyachik, Malyy Semyachik, Karymskiy, Zhupanovskiy, Dzensurskiy, Avachinskiy, Kor-yakskiy, Mutnovskiy, Gorelyy khrebet (Range), Opala, Ksudach, Zheltovskiy, Il'inskiy, Koshelev, Kambal'nyy, and Ichinskiy. A description of each volcano is given in accordance withaunified scheme: synonyms, location, height, form of the volcano, geological characteristics,

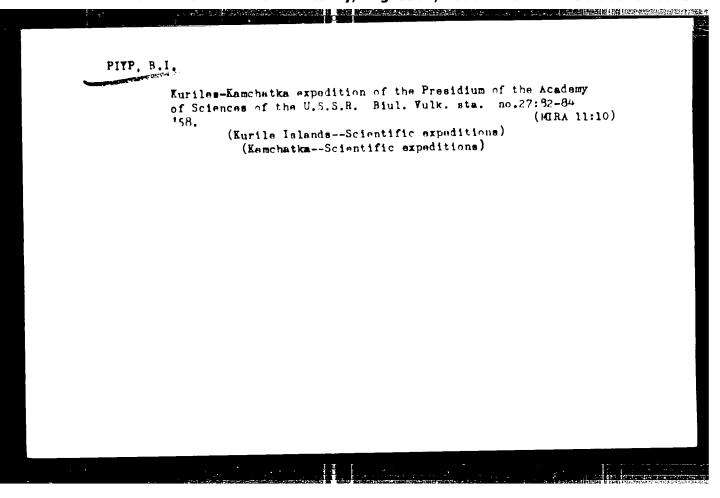
Card 1/2

VLODAVETS, V.I.; PIYP, B.I., otv. red.; NOSOV, red. izd-va,; POLESOVA, T.P., tekhn. red.

[Volcanoes and volcanic formations in the Semyachik area] Vulkany i vulkanicheskie obrasovaniis Semiachinakogo raiom. Moskva, Isd-vo akad. nauk, SSSR, 1958. 192 p. (Akademiia nauk SSSR. Laboratoriia vulkanologii. Trudy, no. 15).

(Kamchatka--Volcanoes)





SVYATLOVSKIY, A.Ye.; KELL', N.G., otv.red.; PIYP, B.I., otv.red.;

PAYYENGOL'TS, K.E., red.; RENGARTEN, V.P., red.; SOLOV'YEV,

S.P., doktor geol.-min.nsuk, red.; LADYCHUK, L.P., red.

izd-ve; STRELETSKIY, I.A., tekhn.red.; POLENOVA, T.P.,

tekhn.red.

[Atlas of the volcances of the S.S.S.R.] Atlas vulkanov SSSR.

Sostavitel' i avtor teksta A.B.Sviatlovskii. Moskva, 1959.

(MIRA 12:8)

A STATE OF THE PROPERTY OF THE

1. Akademiya nauk SSSR. Laboratoriya vulkanologii. 2. Chlen-korrespondent AN SSSR; Laboratoriya aerometodov AN SSSR (for Kell'). 2. Chlen-korrespondent AN SSSR; Laboratoriya vulkanologii AN SSSR (for Piyp). 3. Deystvitel'nyy chlen Akademii nauk Armyanskoy SSR (for Paffengol'ts). 4. Chlen-korrespondent AN SSSR (for Rengarten).

(Volcanoes)

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West, J.I., HTM., B.I.

Recent mentemorphism of volvanic rocks in the review of Puzhatsk thermal springs (Kamshitka) - Truny Lithoutk.

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Kronotskoye ignimbritas of Kamchatka. Trudy Lab. vulk. no.20: 90-91 '61. 1. Geologo-geofizicheskaya observatoriya ibirakogo otdeleniya AN SSSE. (Aronotskoye lake region-Volcanic ash, tuff, etc.

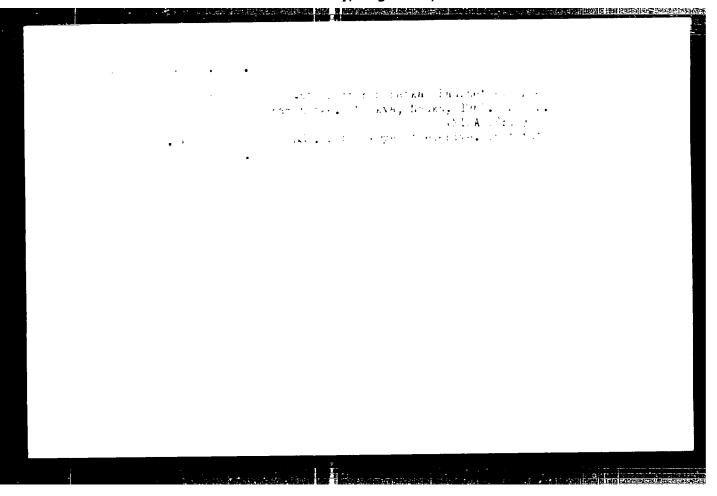
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AVERTICAL, V.V.; MABOKO, S.I.; PITP, B.I.
        Recent hydrothermal metamo phism in areas o active volcanism. Doct.
                                                             (MI A 1/.:2)
        All SSSR 137 no.2:407-410 kg 151.
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        SSSR (for Plyp).
                        (Kamelatka-Geylors) (New Zealand-Geymors)
                                 (Metamor, an-Geolo 7)
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VLODAVETS, V.I.; GOISHKOV 5.5; NABUKE, S.I.; PIYP, B.I.

Development of volcanologic studies in the U.S.S.R. Geol.; geofiz. (MInA 16:3)

1. Laboratoriya vulkanologi: Moskva. (Volcances)
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GORSHKOV, Georgity Stepanovitt: %GOYAVLENSKAYA, Genriyetta
Yevgen yavna: FIVI. State Otv. red.

{Bezymannyy Vc. and and to characteristics of its recent
eruption 1956-1963 Vulkan bezymannyi i osobennosti ego
poslednego izverzhoniia (1955-1963 gg.) Moskve, Nauka,
1965. 169 p. (MIRA 18:8)

OBLOGINA, T.I.; PIYP, V.B.; KOCHIAY, S.

Using seismic methods to study intrusives. Izv. AN SSSR. Ser. (MIRA 15:3) geofiz. no.9:1191-1205 S '62.

1. Moskovskiy gosudarstvennyy umiversitet im. M.V.Lomonosova. (Seismic prospecting)

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PIYPER, E.O. (Tartu, Estonskoy SSR, ul. Ireytsval'di, d.14, kv.1)

Growth and multiplication of cells in the human adrenal [with aumany in English]. Arkh.anat.gist. i embr. 34 no.4:54-63 Jl-Ag '57.

1. Iz kafedry genetiki i dervinizma (zev. - dots. O.F. Mikhaylov)

Tartuekogo gosudarstvennogo universiteta.

(ADRNAL GIAND, enstomy and histology,

cell growth & division (Rus))

(CELL DIVISION,

adrenal gland (Rus))
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KUMARI, E.V., professor, otvetstvennyy redaktor; ONNO, S.Kh.[Onno, S.H.] redaktor; PIYPER_I_Va_[Piiper, I.J.], professor, redaktor; TAL'TS, S.Ys. [Talts, S.J.], kandidat biologicheskikh nauk, redaktor; KHABERMAN, Kh.M. [Haberman, H.M.], redaktor; KARTASHEV, H.H., redaktor izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy redaktor

[Proceedings of the Second Baltic Ornithological Conference] Trudy Vtoroi Pribaltiiskoi ornitologicheskoi konferentsii. Moskve, Izd-vo Akademii nauk SSSR, 1957. 427 p. (MLRA 10:2)

1. Pribaltiyakaya orni tologichaskaya konferentsiya.2d, Tallin, 1954.

2. Institut zoologii i botaniki Akademii nauk Estonskoy SSR (for Kumari, Onno) 3. Deystvitel'nyy chlen Akademii nauk Estonskoy SSR (for Khaberman)

(Baltic Sea region-Birds)

ATTA, I. R.

ATTA, I. R. — "Hon-wires reaffect in the sevenest of the transition of a tized involvation. Field," Tank, then in Tank, 1966. The serve taking for the wearness of Dankin to 1 My sign introduces. Science of Dankin to 1 My sign in the serve of Dankin

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- 1. CHIKOV, Ya. I. PIYR, A.I.
- 2. US:R (600)
- 3. Hoisting Machinery
- 4. Loading winch with drive from the automobile wheels.

 Les. Prom. No. 11 1952.

9. Monthly List of Russian Acessions, Library of Congress, February, 1953. Unclassified.

L 11023-66 ENT(m)/FMP(t) /FTI IJP(c) JD
ACC NR. AP6019653 SOURCE CODE: UR/0368/66/004/006/0529/0534

AUTHOR: Pae, A.; Rebane, K.S.; Piyr, K.

ORG: none

TITLE: Luminescence of ZnS-AgA1S2

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 6, 1966, 529-534

TOPIC TAGS: zinc sulfide optic material, luminescence, emission spectrum, spectrographic analysis

ABSTRACT: The luminescence of ZnS-AgA1S2 phosphors was investigated. To prepare AgA1S2, Ag2S and A12S3 were mixed in a dry form and heated in an evacuated sealed quartz ampule at 850—950C for 12 hr. To prepare the ZnS-AgA1S2 the powder of ZnS was preliminarily heated in a flow of H₂S at 450C for 1 hr, mixed with AgA1S2 and heated for 4.5 hr at 1150C. The concentration of AgA1S2 varied from 5 · 10⁻⁵ to 1.0 mol %. The emission spectra were measured by a monochromator and photomultiplier and the excitation spectra by spectrophotometers. The emission spectrum of ZnS-AgA1S2 revealed three bands with peaks of about 2.3 (blue band), 2.4 (green band), and 2.0 eV (red band). However, all these bands were evident only at low concentrations of AgA1S2 in the phosphor. The blue band dominated

Card 1/2

UDC: 535.37

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ACC NR: AP6019653

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at higher concentrations of the activator. The excitation spectra consisted of three characteristic regions: 1) encompassed the group of peaks found within the absorption limits of the main lattice of ZnS; 2) contained only one characteristic band near the fundamental absorption edge (this band at 77K was at about 3.8 eV); and 3) encompassed all excitation bands, the peak energy of which was less than 3.8 eV. The most interesting of them were the excitation bands of green luminescence at about 3.00 eV and red luminescence at about 2.63 eV. It was found that the peaks of the emission bands shift to the longwave side when the concentration of AgAlS2 and the temperature are increased. It is postulated that the excitation band at 3.80 eV is due to absorption of the exciting light by S²⁻ ions surrounding the activator ion. The red emission band was explained by means of the donor-acceptor model of luminescence. Orig. art. has: 3 tables and 3 figures.

SUB CODE: 11,20/ SUBM DATE: 30Jun65/ ORIG REF: 009/ OTH REF: 007

Card 2/2

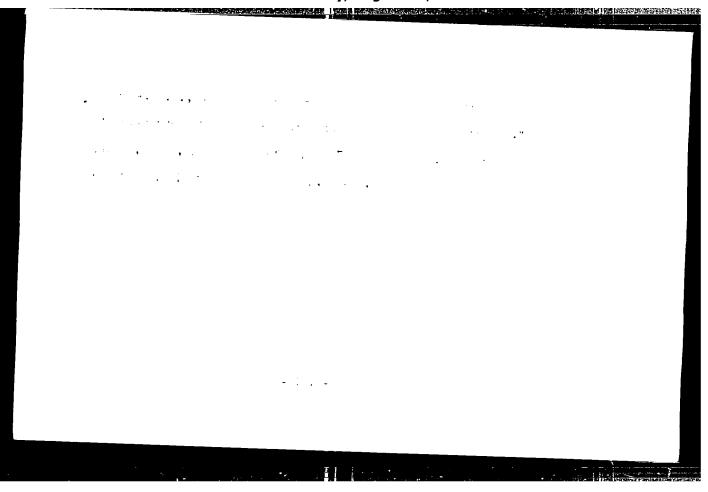
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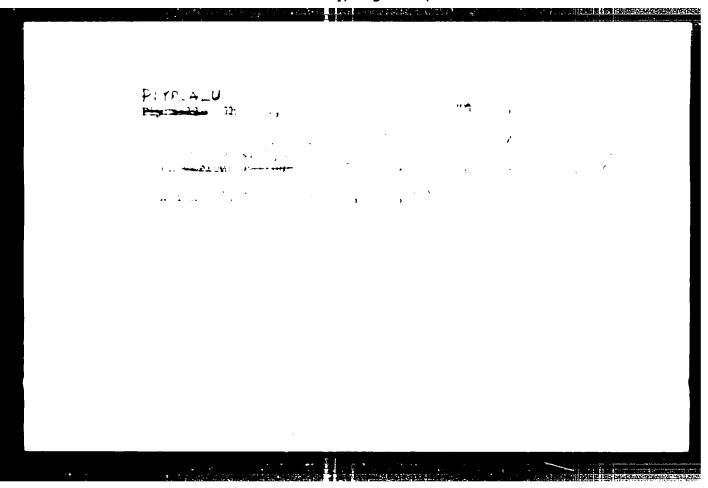
ACCEPTON UP	WP(t)/iMP(b) UP(c) JD
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AUTHORS: Pae, A.; Piyr	······
TITLE: On the structure ZnS-OuAlS2	and luminescent properties of the system
SOUROB: AN EstSSR. Instit 1964. Issledovaniya po ly 203-212	ut fiziki i astronomii. Trudy, no. 26, uminestsentsii (Research on luminescence),
TOPIC TAGS: copper active solid solution, luminescen	ted phosphor, zinc sulfide optical material ce spectrum, concentration dependence
ABSTRACT: The authors in	vestigated methods of preparing GuAIS and
ono-vualo, solid solutions	with an aim at developing a luminon in
CONTRACTOR OF THE OWN	ve a concentration commensurate with that o
ODD I GUALNE RVATAM WAR MYANE	ared by mixing ZnS and CuAlS, in an agate

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	pestle and firing in a stream of H.S at 950 or 1100 11500 from 30 minutes to 2.5 hours. The emission spectrum consists of four bands: blue (~ 460 nm), green (~ 1230 nm), and two orange; a red infrared	
377 P. 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	emission band appears with increasing CualS2 concentration. The	
	spectra were analyzed with an automatic spectrograph. The results show that ZnSnCuAlSo form mixed solid solutions in all ratios. The	
	Zn-Cuals phosphors are typical phosphors up to a copper concentra- tion 2 10-2 g/g at room temperature and up to a concentration 10-1	
13 m	g/g at liquid-air temperature, and exhibit all the typical lumines- cence bands of copper, depending on the concentration. Samples with more than 1.6 molar per cent CuAlS ₂ do not emit at room temperature.	ئىدى دىن
	'The authors thank Docent KS.K. Rebane for suggesting the topic and for valuable remarks.' Orig. art. has: 4 figures	
	ASSOCIATION: Institut fiziki 1 astronomii AN EstSSR (Institute of Physics and Astronomy, AN EstSSR)	
	Card 2/3	

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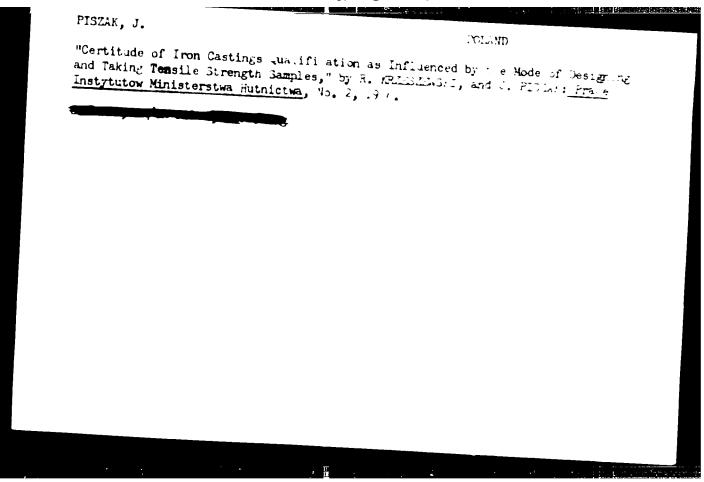
KUSHNIR, P.V., kandidat tekhnicheskikh nauk; BUZHANSKIY, A.B., inshener; KNYAZEV, A.D., inshener; PIYUK, L.A., inshener

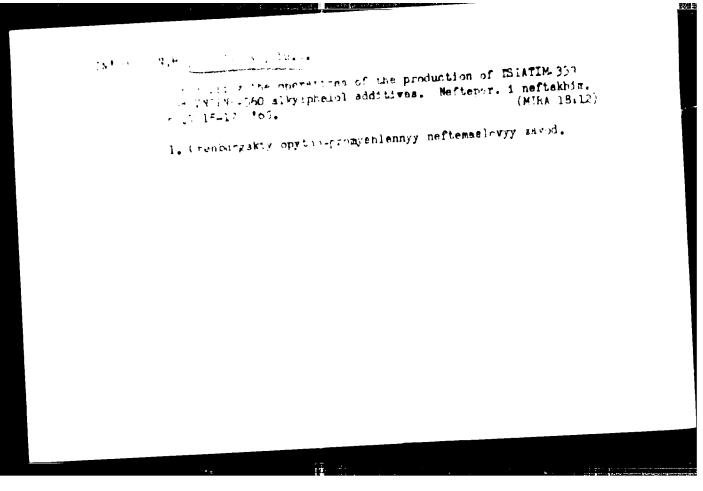
"How a radio station for intradistrict communication should be organized."
Response to V.M. Rozov's article published in no. 1 of the journal for
1955. Vest. sviazi 15 no.7:13-15 Jl '55. (MLRA 8:8)

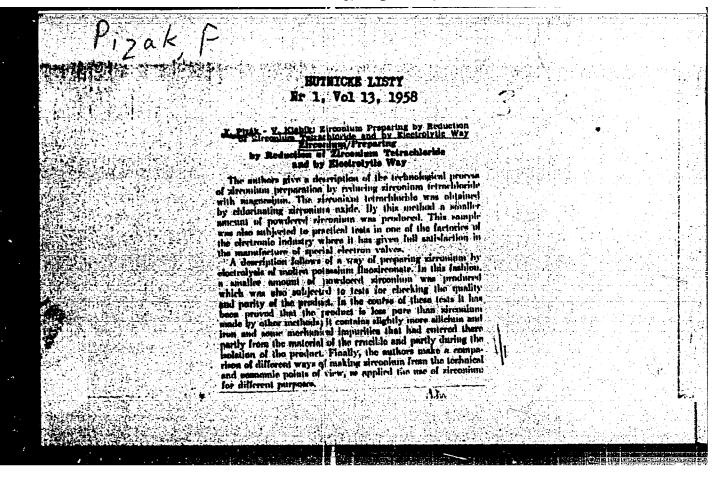
 Nachal'nik laboratorii Leningradskogo otdeleniya nauchnoissledovatel'skogo instituta svyazi (for Kushnir). (Radio stations, Short wave)

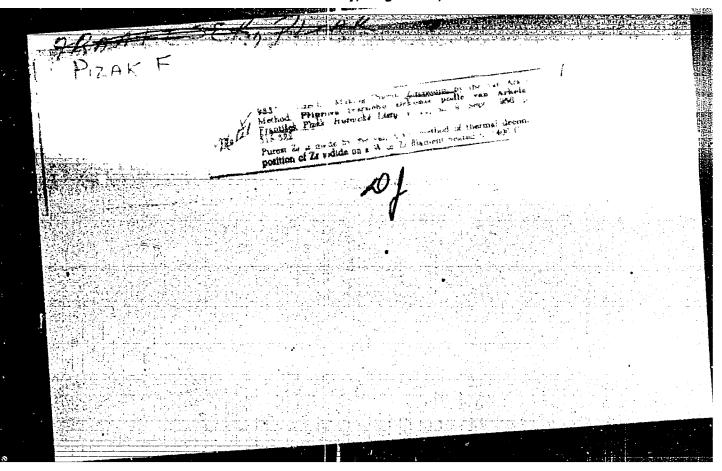
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ACCESSION NR: AP5018796 UR/0318/85/000/007/0015/0017)
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AUTHOR: In kova, N. M.; Piyunkina, Yu. I.	
TITLE: Step-by-step operational checking of the production of TsiATIM-339 and	
NVNINP-360 alkylphenol additives	
SOURCE: Neftepererabotka i neftekhimiya, no. 7, 1965, 15-17	
TOPIC TAGS: alkylphenol, oil additive, phenol determination	
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shlennyy neftemasiozavod (Orenburg Experimental Industrial Petroleum and Oil Refinery for the step-by-step operational checking of the quality of TsIATIM-339 and VNIINP-360 for the step-by-step operational checking of the quality of TsIATIM-339 and VNIINP-360	1
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tion of free phenol in the crude alkylphenol, is described in detail. The phenol content of the phenol in the crude alkylphenol has	*
The state and a sea had not a motor (70-800). This solution of the 18ther 18ther in the same	
phenol is considered to be ready when it has a kinematic viscosity of 5-6.3 centistokes, phenol is considered to be ready when it has a kinematic viscosity of 5-6.3 centistokes, a flash point of 100-110C, and a water content of no more than 0.05%. The sulfurized	
alkylphenol is periodically analyzed for the content of water-soluble acids. All the steps	3
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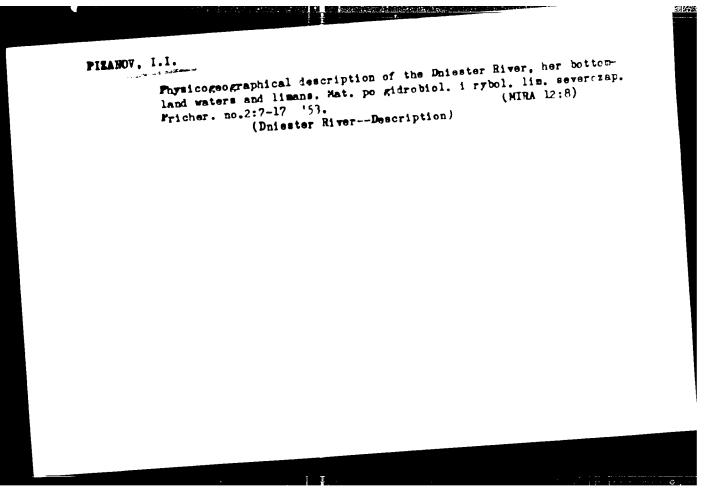
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involved in the prepa	ration of the two additives und	er consideration are described. Orig.
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SHTARKH, B.V., kandidat tekhnicheskikh nauk; PIZARKUKO, A.P., doktor khimicheskikh mauk.

Electron microscope examination of materials used in the artificial leather industry. Leg.prom. 16 no.5:27-30 My '56. (MIRA 9:8)

(Leather, Artificial) (Blectron microscopy)

